

Title (en)
PRODUCTION METHOD AND COATING DEVICE FOR COATING-LIQUID-IMPREGNATED SHEET-LIKE REINFORCING-FIBER BUNDLE AND SHEET-LIKE INTEGRATED OBJECT

Title (de)
HERSTELLUNGSVERFAHREN UND BESCHICHTUNGSVORRICHTUNG FÜR BESCHICHTUNGSFLÜSSIGKEITSIMPRÄGNIERTES FLÄCHENFÖRMIGES VERSTÄRKUNGSFASERBÜNDEL UND FLÄCHENFÖRMIGES INTEGRIERTES OBJEKT

Title (fr)
MÉTHODE DE PRODUCTION ET DISPOSITIF DE REVÊTEMENT POUR FAISCEAU DE FIBRES DE RENFORCEMENT DE TYPE FEUILLE IMPRÉGNÉ DE LIQUIDE DE REVÊTEMENT ET OBJET INTÉGRÉ DE TYPE FEUILLE

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Abstract (en)
The present invention relates to a method of producing a coating liquid impregnated sheet-like reinforcing fiber bundle formed by applying a coating liquid to a sheet-like reinforcing fiber bundle that is unidirectionally arranged continuous reinforcing fibers long in one direction. A problem addressed by the present invention is to provide a production method and a coating device of a coating liquid impregnated sheet-like reinforcing fiber bundle, wherein the method and device can effect continuous running without clogging of generated fuzz even at a high running speed and effect efficient impregnation of a coating liquid into the sheet-like reinforcing fiber bundle. The present invention is a method of producing a coating liquid impregnated sheet-like reinforcing fiber bundle 1b, including allowing a sheet-like reinforcing fiber bundle 1a, which is unidirectionally arranged reinforcing fibers 1, to pass substantially vertically downward through the inside of a coating section 20 storing a coating liquid 2, whereby the method provides the sheet-like reinforcing fiber bundle 1a with the coating liquid 2; wherein the coating section 20 includes a liquid pool and a narrowed section which are in communication with each other; wherein the liquid pool has a portion whose cross-sectional area decreases continuously along a running direction of the sheet-like reinforcing fiber bundle 1a, and wherein the narrowed section has a slit-like cross-section and has a smaller cross-sectional area than the top side of the liquid pool.

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